



Attorney Docket No.: VPI/01-103 US

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1624  
#411  
PS  
VPI/01-103 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner: Deepak R. Rao  
Group Art Unit: 1624  
Applicant: Jingrong Cao, et al.  
Serial No.: 10/071,699  
Filing Date: February 8, 2002  
For: HETEROCYCLIC INHIBITORS OF ERK2 AND  
USES THEREOF

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RESPONSE TO RESTRICTION REQUIREMENT AND PRELIMINARY AMENDMENT

Dear Examiner Rao:

This is in response to the Restriction Requirement dated May 7, 2003 relating to the above-identified application.

INTRODUCTORY MATTER

The Examiner has restricted originally filed claims 1-70 of the above-identified application into the following 8 groups:

- |            |   |
|------------|---|
| Group I.   | Claims 20-70, 7-9, 16-19, and 1-6 (in part), 10-15 (in part), wherein Z <sup>1</sup> is N and Z <sup>2</sup> is C and Q is -CO <sub>2</sub> -, -C(O)NR <sup>7</sup> -, or -S(O) <sub>2</sub> NR <sup>7</sup> -. |
| Group II.  | Claims 20-70, 7-9, 16-19, and 1-6 (in part), 10-15 (in part), wherein Z <sup>1</sup> is C and Z <sup>2</sup> is N and Q is -CO <sub>2</sub> -, -C(O)NR <sup>7</sup> -, or -S(O) <sub>2</sub> NR <sup>7</sup> -. |
| Group III. | Claims 20-70, 7-9, 16-19, and 1-6 (in part), 10-15 (in part), wherein Z <sup>1</sup> and Z <sup>2</sup> are N and Q is -CO <sub>2</sub> -, -C(O)NR <sup>7</sup> -, or -S(O) <sub>2</sub> NR <sup>7</sup> -.     |
| Group IV.  | Claims 20-70, 7-9, 16-19, and 1-6 (in part), 10-15 (in part), wherein Z <sup>1</sup> and Z <sup>2</sup> are C and Q is -CO <sub>2</sub> -, -C(O)NR <sup>7</sup> -, or -S(O) <sub>2</sub> NR <sup>7</sup> -.     |

- Group V. Claims 20-70, 7-9, 16-19, and 1-6 (in part), 10-15 (in part), wherein  $Z^1$  is N and  $Z^2$  is C and Q is other than  $-\text{CO}_2-$ ,  $-\text{C}(\text{O})\text{NR}^7-$ , or  $-\text{S}(\text{O})_2\text{NR}^7-$ .
- Group VI. Claims 20-70, 7-9, 16-19, and 1-6 (in part), 10-15 (in part), wherein  $Z^1$  is C and  $Z^2$  is N and Q is other than  $-\text{CO}_2-$ ,  $-\text{C}(\text{O})\text{NR}^7-$ , or  $-\text{S}(\text{O})_2\text{NR}^7-$ .
- Group VII. Claims 20-70, 7-9, 16-19, and 1-6 (in part), 10-15 (in part), wherein  $Z^1$  and  $Z^2$  are N and Q is other than  $-\text{CO}_2-$ ,  $-\text{C}(\text{O})\text{NR}^7-$ , or  $-\text{S}(\text{O})_2\text{NR}^7-$ .
- Group VIII. Claims 20-70, 7-9, 16-19, and 1-6 (in part), 10-15 (in part), wherein  $Z^1$  and  $Z^2$  are C and Q is other than  $-\text{CO}_2-$ ,  $-\text{C}(\text{O})\text{NR}^7-$ , or  $-\text{S}(\text{O})_2\text{NR}^7-$ .

Applicants elect the invention of Group I (Claims 20-70, 7-9, 16-19, and 1-6 (in part), 10-15 (in part), wherein  $Z^1$  is N and  $Z^2$  is C and Q is  $-\text{CO}_2-$ ,  $-\text{C}(\text{O})\text{NR}^7-$ , or  $-\text{S}(\text{O})_2\text{NR}^7-$ ), without traverse, for further prosecution in this application.

For further prosecution of elected Group I, please amend the application as follows: